IN FIGURES

Sources : French Ministry of Agriculture, Agrifood and Forests - http://agriculture.gouv.fr

- · 282,000 km² of agricultural land in France
- 51% of the total area of France is agricultural land
- 39% of the total area of France is "natural" lands (forests, moorlands, scrublands, etc.)
- 15 million hectares devoted to arable crops (2010)
- 515,000 farms in metropolitan France
- 950,000 people live and work on farms in France
- 3.5% of French farms are involved in organic production (2010)
- 18,000 farms produce certified organic plant or animal products

INTERNATIONAL

Europe is the world's leading agricultural power in terms of production value and the share of the working population employed in agriculture.

France is the 8th agricultural power in terms of contribution to the total value of global agricultural production.

French agricultural production is valued at € 76 billion, far ahead of Germany (56 billion), Italy (49 billion), and Spain (43 billion). France is also a global leader in exports of wheat, seeds, alcohols, wines, and spirits.

RELATED FIELDS

• Aquaculture • Biology • Chemistry • Ecology • Economics and management • Geography • Veterinary medicine • Enology • Earth and space sciences • Shipping • Viticulture

SUBFIELDS

- Equestrian activities Agri-food Agro-ecology Food Land planning and landscaping Atmosphere Biodiversity Biotechnologies
- · Climate change · Climate challenges · Sustainable development
- Water Eco-technologies Emissions Ecological footprint Carbon footprint Alternative energies Epidemiology Forestry Greenhouse gases Genetics Water management Horticulture Hydrology
- Environmental engineering Natural habitats Environmental protection Global warming Public health Aquatic sciences Food safety Silviculture Water technologies Earth Veterinary sciences

USEFUL LINKS

- ABioDoc, French national resource center for organic agriculture: www.abiodoc.com
- Agreste (agricultural statistics, assessments, and outlooks): http://agreste.agriculture.gouv.fr
- Agroécologie (MOOC) Agreenium-IAVFF: www.france-universite-numerique-mooc.fr
- ANEFA (French national association for agricultural employment and training): http://anefa.org
- APECITA (French association for managers, engineers, and technicians in the agricultural and agrifood industries: www.apecita.com
- APCA (French permanent assembly of chambers of agriculture): www.chambres-agriculture.fr
- ◆ CIRAD (agricultural research for development): www.cirad.fr
- Chlorofil: www.chlorofil.fr
- Agricultural education in France and list of BTS certificates in the agricultural sector: www.chlorofil.fr/diplomes-etreferentiels/formations-et diplomes/btsa.html
- ◆ FNAP (French organic agriculture federation): www.fnab.org
- Fésia, 4 private écoles d'ingénieurs in life sciences, agriculture, the agrifood industry, and the environment: www.fesia.org
- IAVFF (French institute for agronomics, veterinary sciences, and forestry): www.agreenium.org
- Training for jobs in agriculture, forestry, nature, and land management: www.educagri.fr
- INRA (French national institute for agricultural research): www.inra.fr
- ♦ Young farmers: www.jeunes-agriculteurs.fr
- French Ministry of Agriculture, Agrifood, and Forests: http://agriculture.gouv.fr/Enseignementagricole
- GLEN: http://glen-europe.org
- Salon de l'agriculture: www.salon-agriculture.com
- UNREP (national rural union for education and promotion): www.maformationagricole.com

AGRICULTURE AGRONOMY

France is the European Union's largest agricultural producer, followed by Germany, Italy, and Spain. With over 500,000 farms, agriculture accounts for more than 1 million jobs in France. Most of these are in the sectors of cereal production and dairy farming, but also in market gardening, viticulture, arboriculture, and horticulture. The arable crop sector is composed primarily of cereals (wheat, barley, corn, etc.), oilseeds (sunflower, colza, soy, etc.), and protein crops (peas, beans, etc.).

The census of agriculture reveals the richness and diversity of French agriculture: cereals, fruits, garden farming, wines, livestock, etc. With regard to medium and large farms, 30% specialize in cattle, 23% in arable crops, and 15% in viticulture. Organic farming is also growing in France with more farmers involved in on-farm processing and short food supply chains.

Thousands of jobs will need to be filled in agriculture, agribusiness, and forestry. From trees to wood products, the wood-forest sector includes diverse fields such as silviculture, logging, wood furniture, construction, sawing, woodwork, and the paper and cardboard industry.

Programs in agriculture are broken down into 8 subject areas: production, processing, spatial planning and environmental protection, equipment, marketing and sales, services, equestrian activities, and animal husbandry and care.

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AGRICULTURE - AGRONOMY

LICENCE

LEVEL

BREVET DE TECHNICIEN SUPÉRIEUR AGRICOLE (BTSA, AGRICULTURAL TECHNICIAN CERTIFICATE)

(SECONDARY DIPLOMA + 2 YEARS OF HIGHER EDUCATION) - L2

The BTSA is offered in private and public secondary schools. 16 BTSA concentrations (options) are available:

- > Production: agronomics; crop production; analysis, management, and strategy of farm businesses; aquaculture; agricultural development in hot regions; animal production; horticultural production; viticulture-enology. > Agro-machinery: agricultural machinery technician training. > Processing of agricultural products: agricultural, biological, and biotechnological analyses; food sciences and technologies.
- > Agribusiness and agri-supply: technical/commercial training. > Services and consulting: rural development and planning.
- > Planning: landscaping; forest management; nature management and protection; water management.

The Brevet de Technicien Supérieur Maritime (BTSM, maritime technician certificate) in fisheries and marine environment management is offered by the Lycée Professionnel Maritime Paul Bousquet in Sète and Boulogne-sur-mer.

www.campusfrance.org >Resources center >Educational and Research programs >Degree description >BTSA

PROFESSIONAL LICENCES

(SECONDARY DIPLOMA + 3 YEARS OF HIGHER EDUCATION) - L2 +1

Three academic programs in agriculture are available:

- > Law, economics, management (distribution, agribusiness), commerce (consulting for members of livestock cooperatives, marketing and international export of French wines), and agribusiness law;
- > Social sciences and humanities in agronomy (sustainable agriculture and environmental certification), landscaping (parks, gardens, green areas, sports fields), and land planning (development and management of natural areas);
- Sciences, technologies, health in agronomy (organic agriculture, sustainable resource management), animal products (consulting jobs in livestock, technicalcommercial jobs in animal nutrition), crop production (crop protection techniques and plant technologies), maintenance of agro-machinery, biotechnologies.

www.campusfrance.org > What program are you looking for? > Undergraduate level

BACHELOR OF SCIENCES

(SECONDARY DIPLOMA+ 2 YEARS OF HIGHER EDUCATION) - L3

The Bachelor of Sciences European Engineer Degree «Animal Products, Crop Products, International Agribusiness" is offered in English by the École Supérieure d'Agriculture d'Angers in partnership with the Université Agricole de Dronten (Netherlands).

www.groupe-esa.com >Formation>Bac+3 & 4

MASTER

LEVEL

MASTER

(SECONDARY DIPLOMA + 5 YEARS OF HIGHER EDUCATION) - M2

Several academic programs offer a Master with concentrations (mentions et spécialités) in the environment:

- > Sciences of the environment, land, and the economy with the following concentrations: planning, energy and land ecology, risk governance, sustainable construction, green construction, ecosystems, marine environment, tourism, arctic studies, health, functional ecology, ecological modeling, environmental toxicology, sciences of industrial and urban environments, etc.
- > Life and environmental sciences and technologies: risks of biocontaminants in human and animal food, engineering of products and processes, toxicology and health, biodiversity, continental environments and hydrosciences, tropical ecosystems management.
- > Sciences, technologies, health: industrial environment, environmental engineering, ecology, sustainable development, risks, expertise, health/safety, naval environment, etc.
- > Law, economics and management with the following concentrations: chemical pollutants, geological engineering, heritage, management, quality, safety, energy, construction, sustainable development.
- > Humanities and social sciences: environmental projects, geomatics, sustainable development, social responsibility, archeology and environment, paleoenvironment. Mediterranean and African environments, etc.

www.campusfrance.org >What program are you looking for? > Postgraduate level

Programs at Engineering Schools (Écoles d'ingénieurs) are taught in English:

- Engineering sciences:
- MAN-IMAL: trandisciplinary management of global health and nutritional safety: www.manimal.fr/en/

http://taughtie.campusfrance.org/tiesearch/

MASTER OF SCIENCES IN MANAGEMENT (MSC)

(SECONDARY DIPLOMA + 5 YEARS OF HIGHER EDUCATION) - M2

Programs at Engineering Schools (Écoles d'ingénieurs) are taught in English:

- > Agribusiness Agroecology: www.groupe-esa.com>Formation> Bac +5
- > Agroecology organic agriculture: ISARA Lyon www.agroecology.fr
- > Viticulture, Enology: SupAgro Montpellier: www.supagro.fr

http://taughtie.campusfrance.org/tiesearch/

DIPLÔME D'INGÉNIEUR (ENGINEERING DEGREE) / MASTER (SECONDARY DIPLOMA + 5 YEARS OF HIGHER EDUCATION) - M2

Below are French institutions sponsored by the Ministry of Agriculture that offer engineering degrees accredited by the CTI (Commission des Titres d'Ingénieur):

- > Agrocampus Ouest: Institut national supérieur des sciences agronomiques, agroalimentaires, horticoles et du paysage www.agrocampus-ouest.fr
- > AgroParisTech: Institut des sciences et industries du vivant et de l'environnement www.agroparistech.fr
- > Agrosup Dijon: Institut national supérieur des sciences agronomiques, de l'alimentation et de l'environnement www.agrosupdijon.fr
- > Bordeaux Sciences Agro: École nationale supérieure des sciences agronomiques de Bordeaux-Aguitaine www.agro-bordeaux.fr
- > ENGEES: École nationale du génie de l'eau et de l'environnement de Strasbourg www.engees.unistra.fr
- > ENSAIA: École nationale supérieure d'agronomie et des industries alimentaires http://ensaia.univ-lorraine.fr
- > INPT-ENSAT: École nationale supérieure agronomique de Toulouse www.ensat.fr
- > Montpellier SupAgro: Institut national d'études supérieures agronomiques de Montpellier www.supagro.fr
- > ONIRIS: École nationale vétérinaire, agroalimentaire et alimentation Nantes Atlantique www.oniris-nantes.fr
- > El Purpan: École d'ingénieurs de Purpan www.purpan.fr
- > ESA École supérieure d'agriculture d'Angers www.groupe-esa.com
- > ESB: École supérieure du bois www.ecoledubois.fr
- > ESITPA: École d'ingénieurs en agriculture www.esitpa.org
- > IAMM Institut agronomique méditerranéen de Montpellier www.iamm.fr
- > Institut Polytechnique LaSalle Beauvais www.lasalle-beauvais.fr
- > ISA Lille: Institut supérieur d'agriculture de Lille www.isa-lille.fr
- > ISARA-Lyon Institut supérieur d'agriculture de Rhône-Alpes www.isara.fr
- > VetAgroSup: Institut d'enseignement supérieur et de recherche en alimentation, santé animale, sciences agronomiques et de l'environnement www.vetagro-sup.fr
- > www.cti-commission.fr

NIVEAU POST-M

MASTÈRE SPÉCIALISÉ (MS, SPECIALIZED MASTER) (M2 +1 YEAR OF HIGHER EDUCATION)

Labeled by the *Conférence des Grandes Écoles*, the *Mastère Spécialisé* program enables students to earn an institutional credential attesting to dual competence in specialized areas of Environmental studies (French and/or English).

www.campusfrance.org >Resources center >Educational and Research programs >Degree description >Mastères spécialisés

> List of MS programs: www.cge.asso.fr/nos-labels/ms